

IN THE CLAIMS

1. (previously presented) Apparatus for rewinding paper into rolls discontinuously without stopping unwinding comprising an unwinding device (12) of at least two plies of paper (13, 14) arranged in series with an embossing device (20) of the at least two plies and with a rereeling machine (27) which stops when a log is completed, characterized in that a gluing device (22) of the at least two plies of paper (13, 14) and a build up device (26) of the at least two glued plies for feeding the rereeling machine (27) are associated with the embossing device (20), with it being foreseen that the build up device (26) is actuated at each stopping of the rereeling machine (27) for all of the time taken to discharge a finished log and for the insertion of a core so that the devices upstream of the rereeling machine do not stop and thus the flow of paper is not interrupted wherein said build up device (26) comprises a frame (28) on which a series of fixed rollers (29) are arranged alternating with a series of vertically mobile rollers (30), wherein said at least two glued plies (13, 14) are inserted zigzagging back and forth between said fixed rollers and mobile rollers.

2. (canceled)

3. (previously presented) The apparatus according to claim 1, characterized in that said embossing device (20) comprises a bearer structure (24) on which deviator rollers (19) are arranged which direct one ply (14) to first embossing rollers (21) and the other ply (13) of said at least two plies (13, 14) to said glue dispenser (22) arranged before second embossing rollers (23).

4. (previously presented) The apparatus according to claim 1, characterized in that said unwinding device (12), said embossing device (20), said build up device (26) and said rereeling machine (27) have independent motors.